

15th Appleton Space Conference Thursday 5th December 2019

08.45 - 09.25	Registration and Refreshments – R22 Lecture Theatre Foyer	
Session 1: Chair - Prof Chris Mutlow, Director, STFC RAL Space		
09.30 – 09.40	Welcome Prof Chris Mutlow	
09.40 - 10.00	Leading the New Space Age Dr Graham Turnock, Chief Executive, UK Space Agency	
10.00 - 10.20	Update from the European Space Agency Dr Dave Parker, Director of Human Spaceflight and Robotic Exploration, ESA	
10.20 - 10.40	Transforming our View of the Sun: A New Era of Ground and Space-based Observations Prof Sarah Matthews, Professor of Solar Physics, University College London	
10.40 - 11.00	A New Space Approach to Greenhouse Gas Monitoring Adina Gillespie, Director of Business Development, Europe GHGSat Inc	
11.05 – 11.25	Refreshments Break – R22 Lecture Theatre Foyer	
11.30 – 11.50	The Square Kilometre Array: Studying the Universe from the Cosmic Dawn to the Dawn of Life Prof Phil Diamond, Director General, Square Kilometre Array	
11.50 – 12.10	Innovation and Investment Trends in New Space James Bruegger, Managing Partner, Seraphim Capital	
12.10 – 12.30	One Million Interactions Alison Stephens, ESERO-UK Project Officer, STEM Learning Centre and Network	
12.30 – 12.40	Highlight: Women in Aerospace Europe Liz Seward, Women in Aerospace Europe, Board Secretary & UK Local Group Leader	
12.45 – 13.45	Buffet Lunch – R22 Lecture Theatre Foyer	
Session 2: Chair – Dr Gillian Wright, Director, STFC UK Astronomy Technology Centre		

13.50 - 14.10Europe to the Moon - A Case for Private Space Exploration Out of EuropeRobert Boehme, Founder, Planetary Transportation Systems GmbH



14.10 - 14.30	The Ice Age of the JWST Era: Mapping the Frozen Voids of the Galaxy Dr Helen Fraser, Senior Lecturer, Faculty of Science Technology, Engineering and Mathematics, Open University	
14.30 – 14.50	Comet Interceptor: A New ESA Mission to an Ancient World Prof Geraint Jones, Professor of Planetary Science, University College London	
14.50 – 15.10	Small Wave Big Impact: Sensing Millimetre-Waves from Space Dr Manju Henry, Millimetre Wave Technology Group Senior Scientist, STFC RAL Space	
15.15 – 15.40	Afternoon Tea: 15 th Appleton Space Conference Celebration - R22 Lecture Theatre Foyer	
Session 3: Chair – Dr Joanna Hart, Harwell Space Cluster Development Manager, STFC		
15.45 – 16.05	AWS Ground Station as a Service – The Democratisation of Space Phil Cooper, Account Lead Amazon Ground Station EMEA, Amazon Web Services	
16.05 – 16.25	QKD Qubesat Mamatha Maheshwarappa, Senior Space Systems Engineer, STFC RAL Space	
16.25 – 16.45	Next Generation Microwave Imaging of the Polar Regions: The Copernicus Imaging Microwave Radiometer (CIMR) Dr Craig Donlon, Principal Scientist for Oceans and Ice, ESA, ESTEC	
16.45 – 17.05	Developing Lightweight Deployable Structures for the New Space Age Shefali Sharma, Senior Commercial Strategist, Oxford Space Systems	
17.10 - 17.20	Short Break – R22 Lecture Theatre Foyer	
Session 4: 15 th Appleton Keynote Lecture; Chair – Prof Chris Mutlow, Director, STFC RAL Space		
17.25 – 18.15	The Ethical Roboticist: From Robot Ethics to Ethical Robots Prof Alan Winfield, Bristol Robotics Laboratory	
18.20 – 18.30	Presentation and Conclusion Prof Chris Mutlow	
18.30 – 19.15	Reception for all participants – R22 Lecture Theatre Foyer	

